

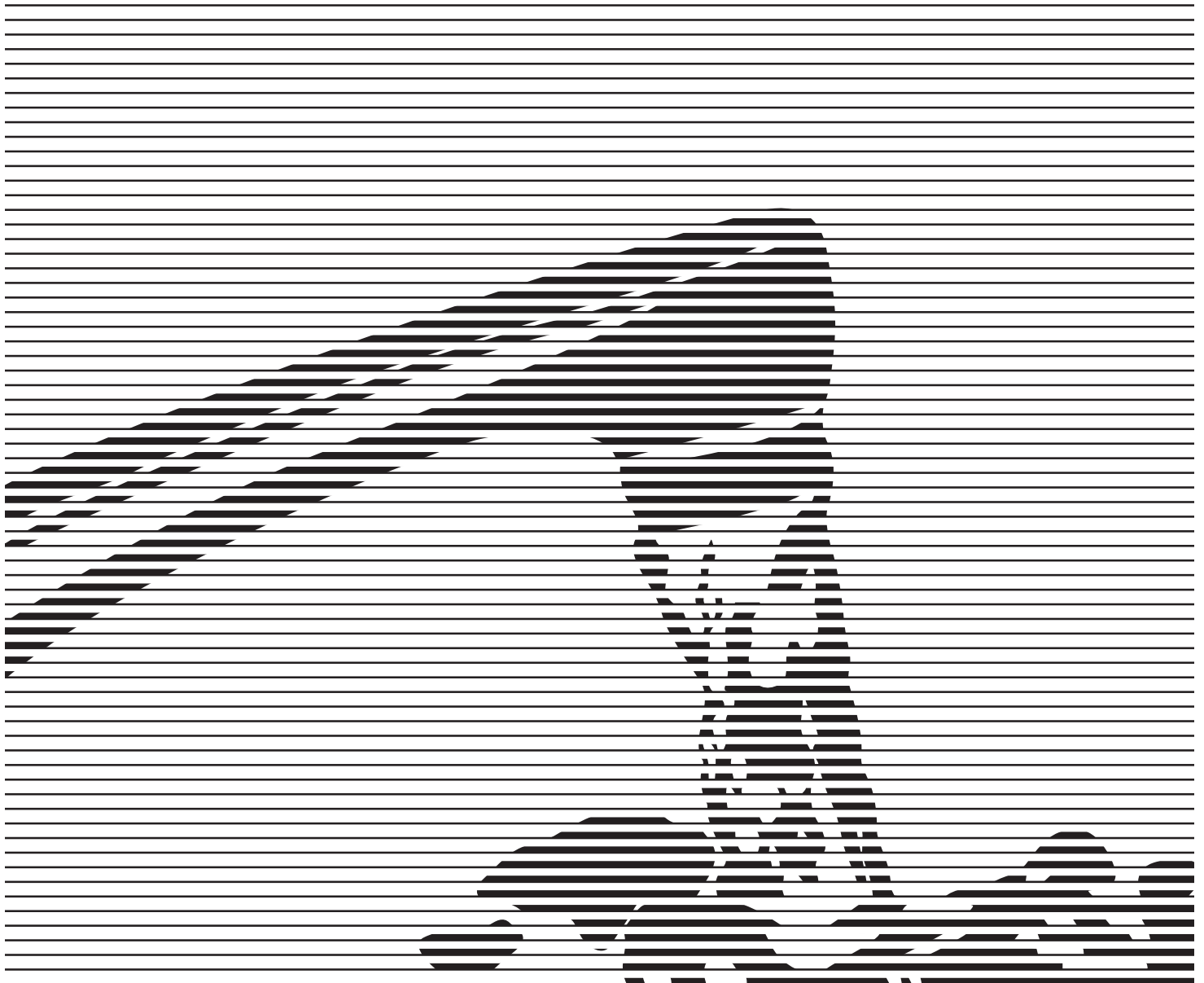
Series 9000 Water Treatment System

Owners Manual

Installation

Service & Parts

Operation Guide



The Clear Choice for Soft, Conditioned Water



Welcome to the family of Aqua Systems customers. We thank you for placing your confidence in the Series 9000 water treatment systems.

The Series 9000 was designed with the owner in mind. The Exchangeable Component Maintenance System allows easy and efficient maintenance. Each major part is a replaceable component that is easily removed. These components are exchangeable with the factory which makes service by a professional optional.

Each Series 9000 is hand-crafted by a skilled technician. This personal attention to detail assures you of the high quality craftsmanship Aqua Systems is known for.

Please read this manual for valuable information to get the most out of your Series 9000. This manual covers water conditioners, both timer-controlled and meter-controlled, and filters. If you have questions feel free to call direct to the factory or your dealer.

Date of Installation: _____
Model Number: _____
Serial Number: _____
Dealer's Name: _____
Installer's Name _____

TABLE OF CONTENTS

	Page
Pre-Installation Review -----	2
Installation Procedures & Start Up-----	3-6
System Design & Flow Diagrams -----	4-12
Valve Parts Diagram & List -----	6-16
Timer-Controlled Model-----	15-20
Meter-Controlled Model-----	21-27
Warranty Information -----	29

The Series 9000 Water Treatment Systems are designed and manufactured by:

AQUA SYSTEMS
7785 East U.S. Highway 36
Avon, IN 46123

Phone: 317-272-3000
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Pre Installation Review

Location Specifications:

- Not intended to be used to treat water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Hardness in grains: _____ Estimated Water Usage: _____

Iron in parts per million: _____ Service Line Size: _____

Notes: _____

Requirements for Proper Operation:

Water Pressure: A minimum water pressure of 20 psi and a maximum of 125 psi must be supplied to the equipment.

Flow Rate: A minimum of 5 gallons per minute is required for equipment to work properly. If you have less than 5 gal./min., consult with factory for special settings.

Water Temperature: The water temperature operating range is a minimum of 35° F and a maximum of 100° F. The system and drain must be protected from freezing.

Drain: A drain must be within 20 ft. of the installation. There must be a proper back-siphon provision put in place.

Electricity: Plug systems into a standard 110 volt outlet. System uses 110 v - 60 hz - 3watts

Tips for Maximizing the Benefits From the Series 9000:

Salt: By using a clean grade of salt, you can reduce or eliminate brine tank clean outs. If you have iron in your water, using an iron inhibiting salt can help. Always keep the salt level above the water level in the brine tank.

Power: In the event of a power outage, check the timer for the current time and adjust if necessary.

Bypass: If you require well or pump work, always bypass your Series 9000 until the work is finished and the water runs clear.

Sand: If sand is present, use a special filter to remove the sand before the system.

Installation Procedure

• System and Installation must comply with state and local codes.

Read all instructions before starting!

1. Unpackage system and visually inspect. Note: If the system comes equipped with demand regeneration. The By-Pass valve for these units is located in a separate box inside the main box. It is required that the By-Pass valve be installed onto the meter. To do so simply loosen the 2 adapter clips located on the back of the meter with a 1/4" nut driver or a screwdriver. Slip the bypass over the "O" rings on the meter and tighten the adapter clips.

2. Find a location with accessibility to:

- A. The main inlet water supply.
- B. Adequate drain Fixture, capable of 5 gallons per min. flow.
- C. Electrical Outlets.

3. Place Unit in chosen location, if the floor is not level the unit may be leveled with the built in adjustable base by lightly tapping the unit on the floor.

4. There should be a minimum of 12' of **Water Line** between softener and water heater.

- 1. Turn off electric or gas to water heater and the inlet (cold) water valve to heater.
- 2. Turn off main water supply to building and drain off pressure at all cold water outlets.
- 3. In placing the inlet line to the unit make these considerations.

A. Do you want your outside spigots on hard water? If so place provisions in the water line before entering the unit by placing appropriate number of tees and extending them to the outside.

B. Is there a main shut off valve for the building? If not, a convenient place for one is in the inlet line to the unit.

C. The inlet water line should be a minimum of 3/4" in size. If yours is smaller consult our manufacturing plant for required adjustments.

D. Do not solder fittings directly into the By-Pass valve, use threaded adapter with a minimum 3" between sweat fitting and By-Pass.

With the above considerations connect the water line to the inlet of the conditioner which is designated by an arrow pointing toward the valve of the unit on the By-Pass.

4. Connect the outlet, designated by an arrow pointing away from the unit on the By-Pass, to the water line that feeds the inside of the building.

Note: If the building is pre-plumbed with a three way By-Pass that By-Pass must be inspected. If the By-Pass does not seal 100% there will be hard water intrusion.

Drain Line Connection

On the back of the water control center there is a 1/2" Threaded port. This is the connector for the system drain. Use only teflon tape on the connection. Do not use pipe dope or paste of any kind.

Note:

You may elevate the drain line up to 6 feet if you are discharging into an open drain and if you have a minimum of 40 psi water pressure at the softener. You may elevate an additional 2 feet for each additional 10 psi over 40 psi.

Also, the total run of the drain line should not exceed 20 feet.

Some codes require, and it is advisable, that you leave a 4" air gap between the drain line and the floor drain.

Brine Line

On these units it is necessary to install the brine line between the control valve and the brine tank. A 4 foot piece of 3/8" poly tubing is included with the unit. Install one end of the tubing to the compression elbow at the brine tank making sure the brass sleeve is inserted into the tube before hookup. Install the other end of the tubing into the compression nut on the right hand side of the control valve making sure to first insert a brass sleeve into the tubing and then insert the brine screen (included) into the brass sleeve. Tighten fittings.

Overflow

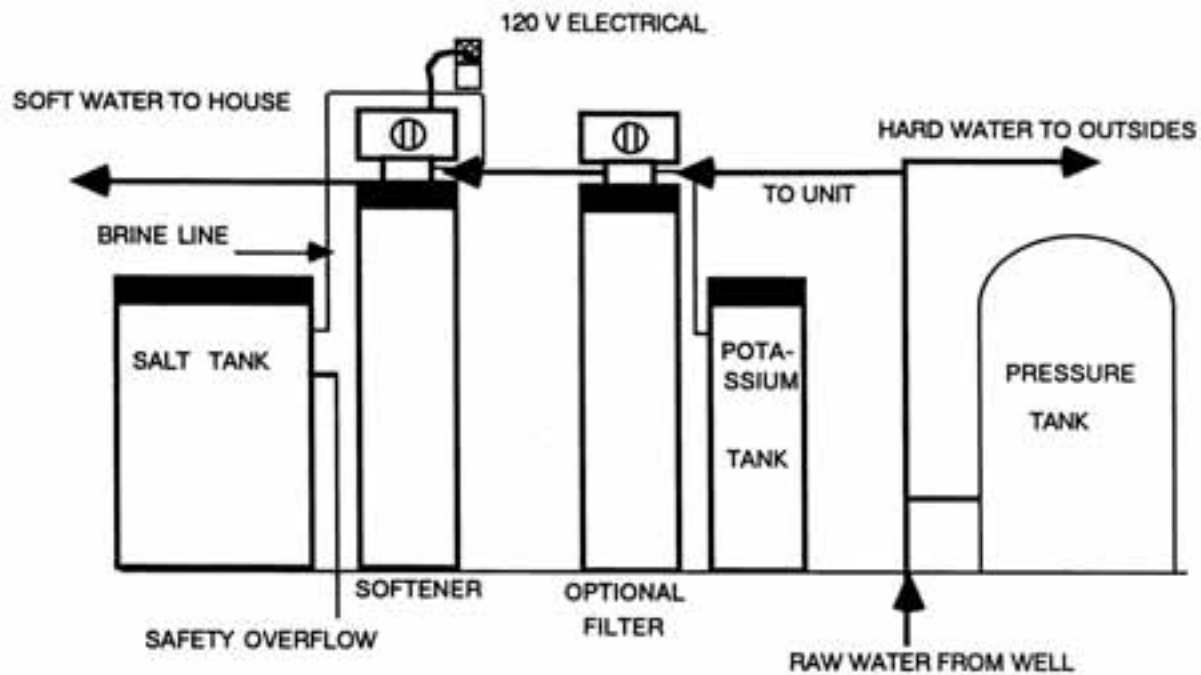
Each unit has the provision for connecting an overflow drain line. On the brine tank is a slip fitting for 5/8" plastic line. This should be run to an area where a small amount of spillage would be accepted in the event a malfunction should occur.

Sanitizing the System

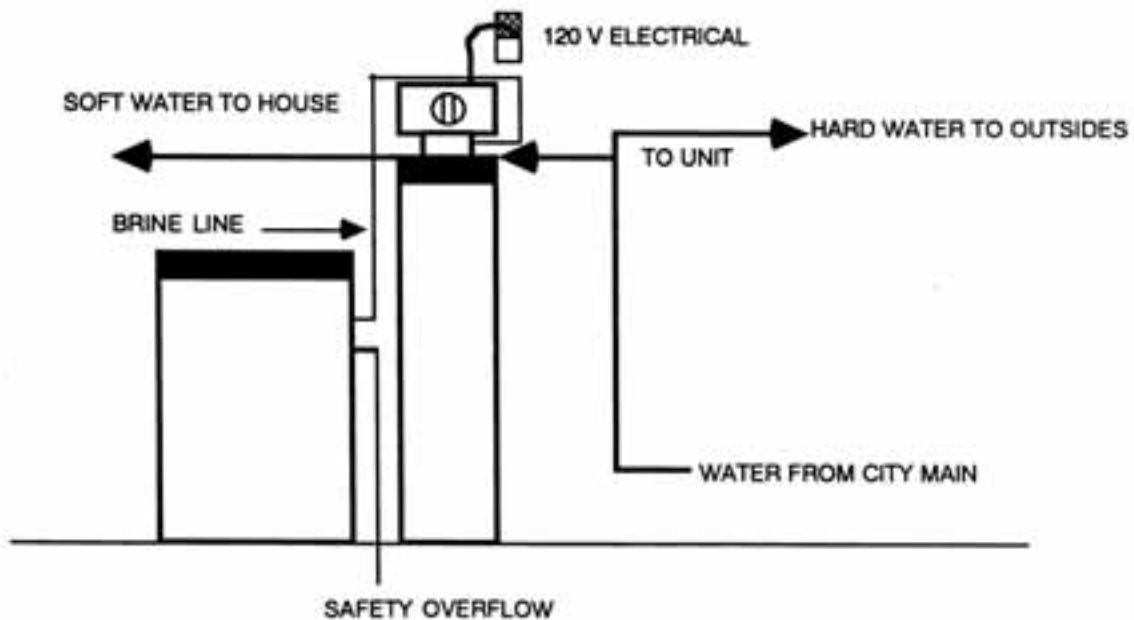
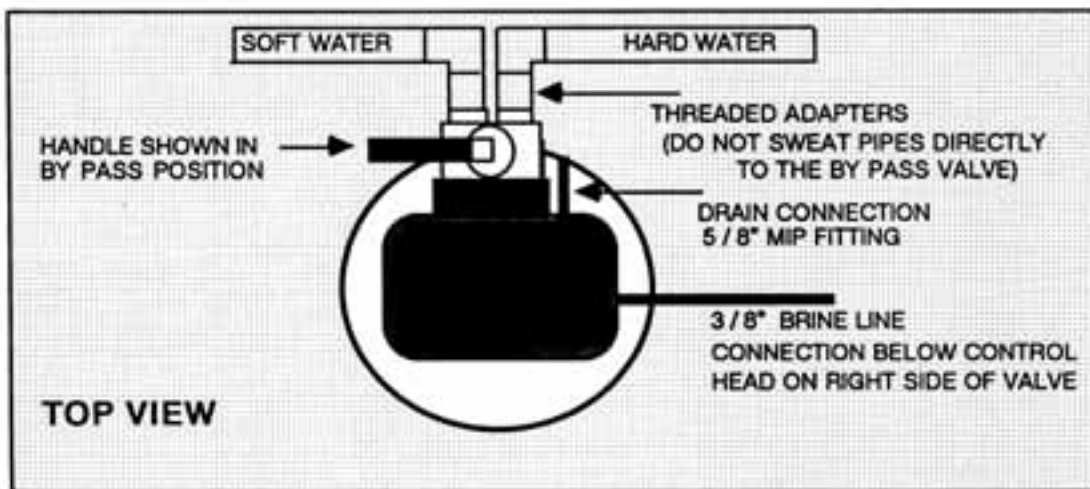
The materials of construction of the modern water conditioner will not promote bacterial growth, nor will these materials contaminate a water supply. However, the normal conditions that exist during shipment, storage and installation make it advisable to disinfect a conditioner after installation, before the conditioner is used to treat potable water. In addition, during normal use, a conditioner may become fouled with organic matter, or in some cases, with bacteria from the water supply. Therefore every conditioner should be disinfected after installation, some will require periodic disinfection during their normal life.

To Disinfect the System:

- 1. Add 1.2 fluid ounce of 5.25% sodium hypochlorite solution (household bleach; Clorox, Bo Peep, etc.) for each cubic foot of resin to the brine well of the brine tank. (the 4" tube with a cap on it inside of the brine tank)
- 2. Manually start a normal regeneration. Allow the system to complete the regeneration.



WELL WATER INSTALLATION

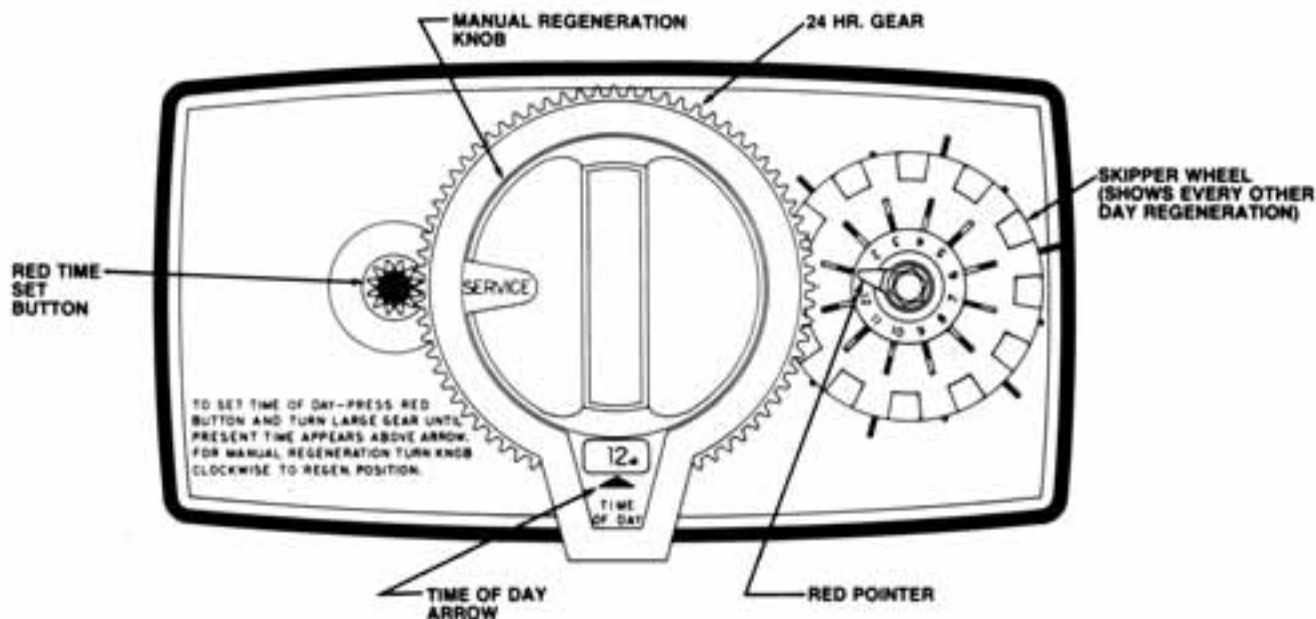


CITY WATER INSTALLATION

TIMER MODEL

installation and start-up procedure

The water softener should be installed with the inlet, outlet and drain connections made in accordance with manufacturer's recommendations and to meet applicable plumbing codes.

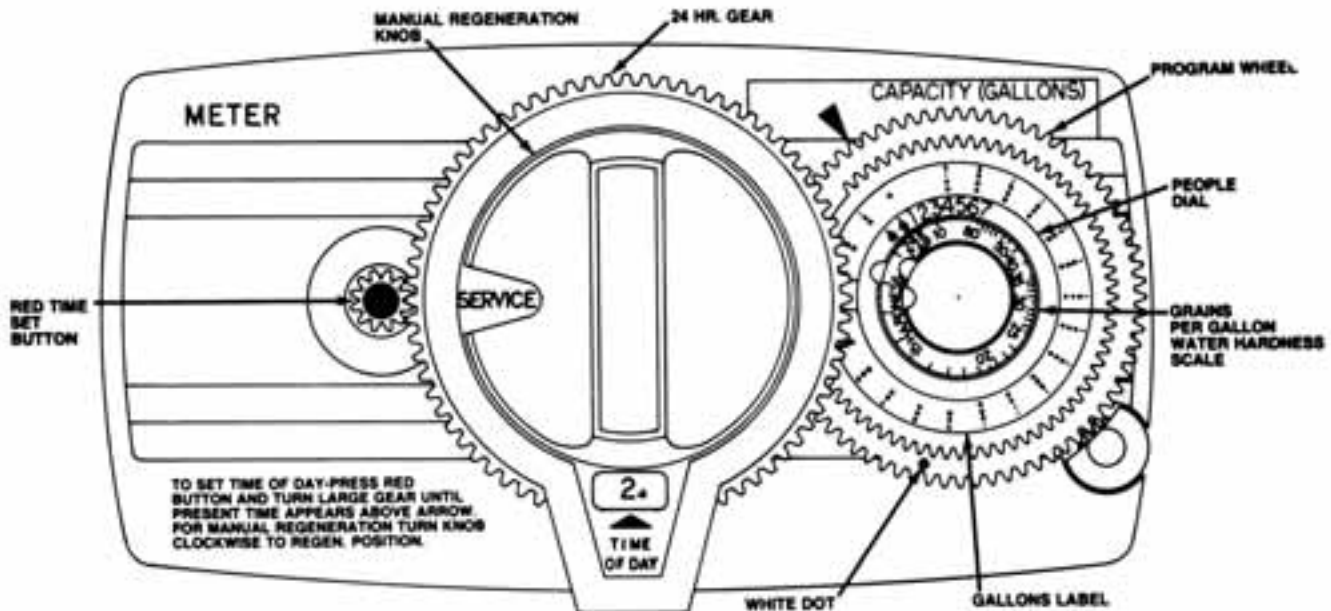


1. Manually index the softener control into the service position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines, then close the tap.
Note: the various regeneration positions may be dialed manually by turning the knob on the front of the control until the indicator shows that the softener is in the desired position.
2. Manually index the control to the back-wash position and allow water to flow at the drain for 3 or 4 minutes.
3. Remove back cover plate.
4. Make sure that the salt dosage is set as recommended by the manufacturer. If necessary, set salt in accordance with the setting instruction sheet. Manually index the control to the brine fill position and allow the brine tank to fill to the top of the air check.
5. Manually index the control to the brine draw position and allow the control to draw water from the brine tank until it stops.
6. Plug in the electrical cord and look in the sight hole in the back of the motor to see that it is running. Set the days that regeneration is to occur by sliding tabs on skipper wheel outward to expose trip fingers. Each tab is one day. Finger at red pointer is tonight. Moving clockwise from red pointer, extend or retract fingers to obtain the desired regeneration schedule.
7. Manually advance the control to the beginning of the brine fill position; and allow the control to return to the service position automatically.
8. Fill the brine tank with salt.
9. Replace back cover on the control.
10. Make sure that any by-pass valving is left in the normal service position.

METERED MODEL

installation and start-up procedure

The water softener should be installed with the inlet, outlet and drain connections made in accordance with manufacturer's recommendations and to meet applicable plumbing codes.



1. Manually index the softener control into the service position and let water flow into the resin tank. When the water flow stops, open a softened water tap until all air is released from the lines, then close the tap.

NOTE: the various regeneration positions may be dialed manually by turning the square knob on the front of the control until the indicator shows that the softener is in the desired position.

2. Set water usage program wheel using any one of the following procedures:

Typical Residential Application

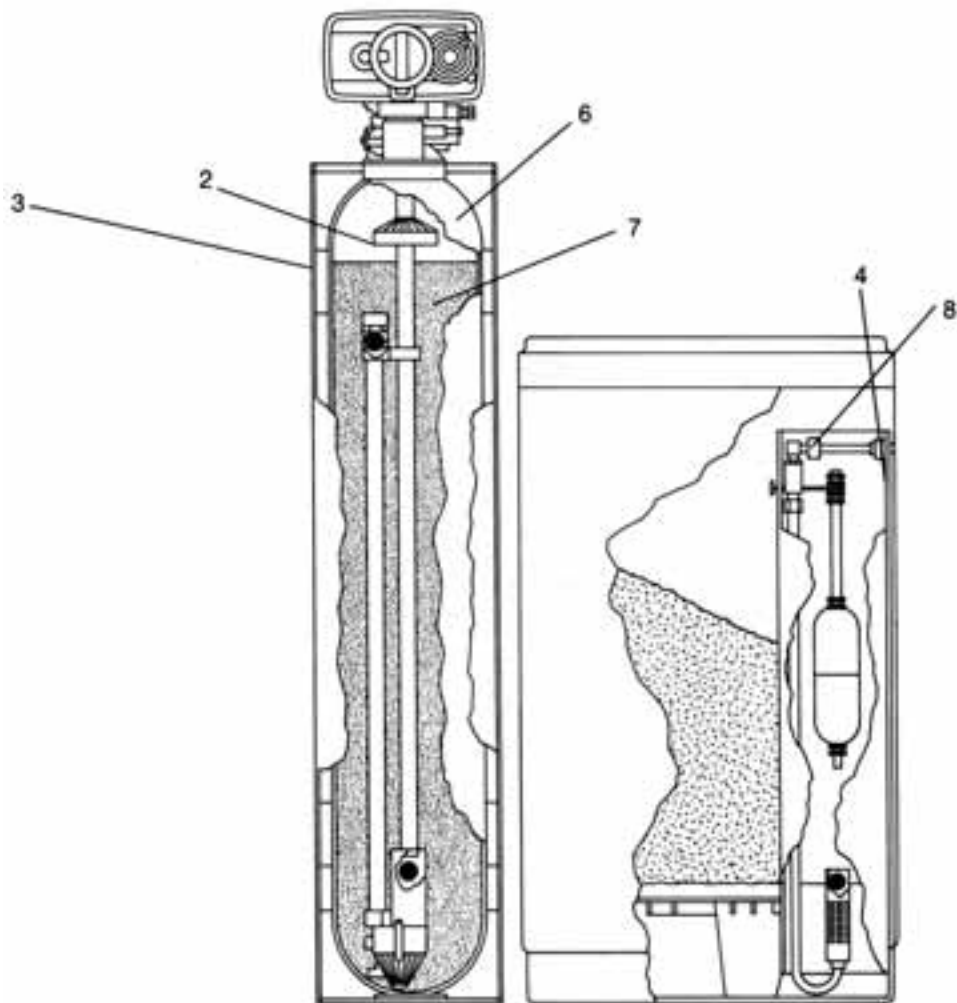
To program, just set the time, set the hardness and it automatically monitors system needs and regenerates only when necessary. To set time of day press red time set button and turn 24 hour gear until present time of day is opposite "time of day". Set program wheel by lifting the "people" dial and rotating it so that the number of people in the household is aligned with the grains per gallon water hardness scale. Release the dial and check for firm engagement at setting. (This method will provide reserve capacity based on 75 gallons per person.)

Optional Programming Procedure

Calculate the gallon capacity of the system, subtract the necessary reserve requirement and set the gallons available opposite the small white dot on program wheel gear. Note, drawing shows 850 gallon setting. The capacity (gallons) arrow denotes remaining gallons exclusive of fixed reserve.

3. Rotate the program wheel counterclockwise until it stops at regeneration position.
4. Manually index the control to the back-wash position and allow water to flow at the drain for 3 or 4 minutes.
5. Remove back cover plate. The grommet in the cable hole can be slipped out to fully remove cover plate.
6. Make sure that the salt dosage is set as recommended by the manufacturer. Manually index the control to the brine fill position and allow the brine tank to fill to the top of the air check.
7. Manually index the control to the brine draw position and allow the control to draw water from the brine tank until it stops.
8. Plug in the electrical cord and look in the sight hole in the back of the motor to see that it is running.
9. Manually advance the control to the beginning of the brine fill position and allow the control to return to the service position automatically.
10. Fill the brine tank with salt.
11. Replace back cover on the control. Be sure grommet for cable hole is in place.
12. Make sure that any by-pass valving is left in the normal service position.

Distributor System and Brine Tank



Parts List for Main System and Brine Tank*

Item No.	Description
1.	Not Used
2.	Turbulator Distributor System
3.	Tank Shroud
4.	Brine Well
5.	Salt Shelf
6.	Resin
7.	Media
8.	Safety Shut Off - Brine Valve

* In ordering these parts you must specify your model number.

Maintenance Information

Exchangeable Component Maintenance System:

Aqua Systems combined with the Series 9000 design gives you the most efficient maintenance system ever developed in water treatment. The system functions through three main components:

- 1.) Water Control Center - Valve 2.) Mineral Tank System 3.) Brine Maker

The design of the Series 9000 makes these components easy to separate and Aqua Systems offers an exchange program. It is so easy to work with these components that you may never require an in home service call by a technician. However, if you do have in home service this system will save you money because of the speed in fixing problems.

Each of the main components is designed as a series of smaller components. This makes repairing economical and quick. By Aqua Systems doing all of the repairing in the plant and having the component checked thoroughly before going to the customer it eliminates return service calls. The following pictures and instructions for the Quick Disconnect show the simplicity of this concept system.



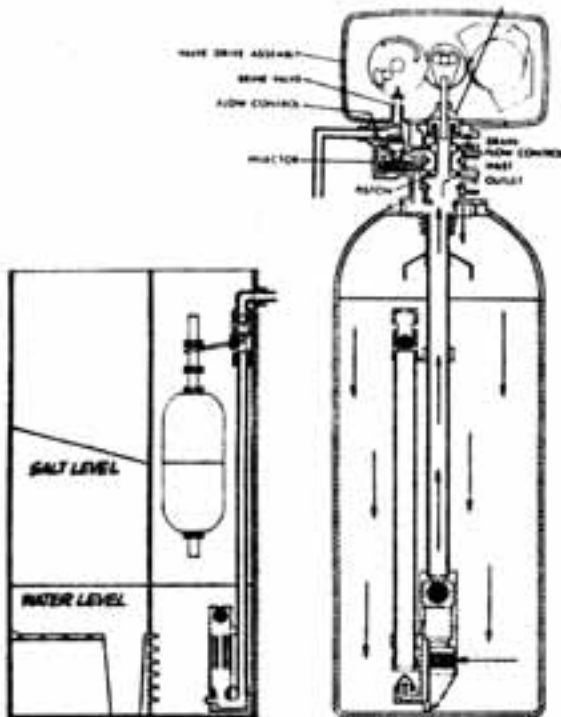
Quick Disconnect Procedure:

1. Unplug unit from electrical power source.
2. Move the Bypass lever from the "Service" position to the "Bypass" position
3. Turn the Manual Regeneration knob to the "Backwash" position to relieve the pressure.
4. Remove the drain line from the back of the Control Head.
5. Remove the Brine Line from the control valve using a 5/8 wrench.
6. Remove the two clips between the bypass and the control valve using a screwdriver or a 1/4" nut driver. Then gently slip the unit off of the bypass.
7. Remove the two valve mounting pins at the base of the valve. Then gently rock the valve from front to back while lifting up.
8. To reinstall the control valve, center the control valve over the distributor tube and gently push down while gently rocking the valve front to back.
9. Sanitize system when finished. (see page 3 for instructions on sanitizing.)

Note: When removing the head there may be some spillage of water.
It is recommended to have a towel handy.

TURBO DISTRIBUTOR

water conditioner flow diagrams

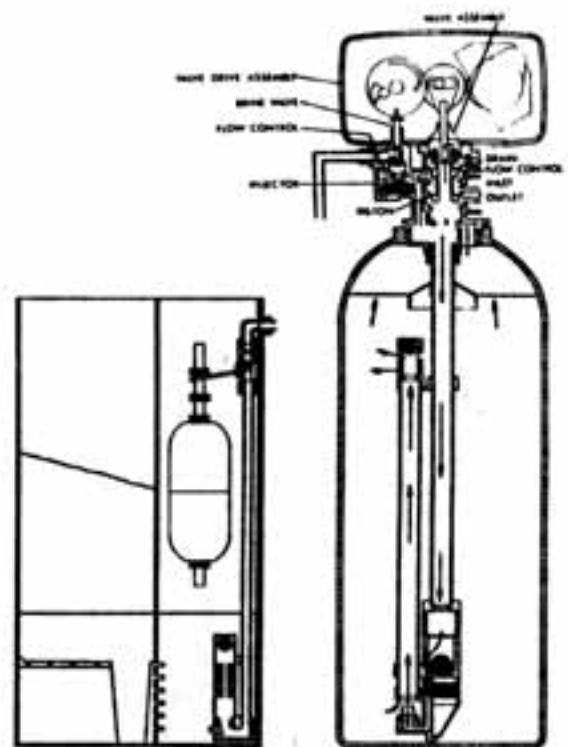
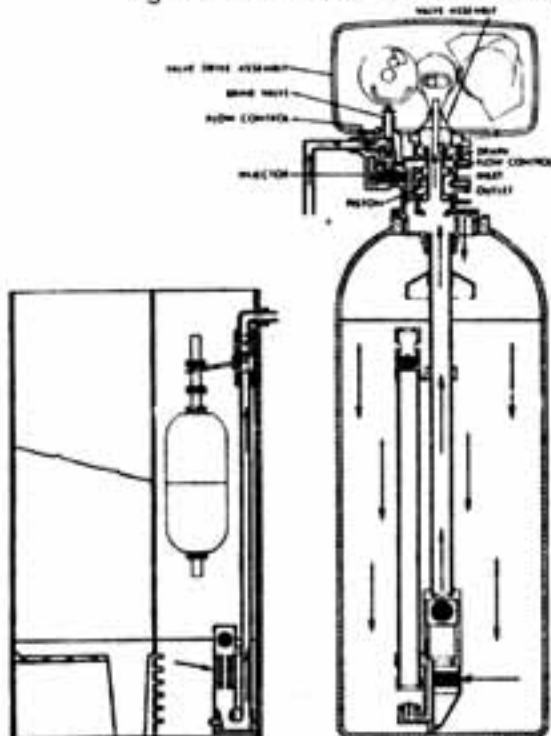


1. SERVICE POSITION

Hard water enters unit at control inlet and flows down through the mineral in the mineral tank. Conditioned water enters center tube through the bottom distributor—then flows up the center tube—around the piston and out the control outlet.

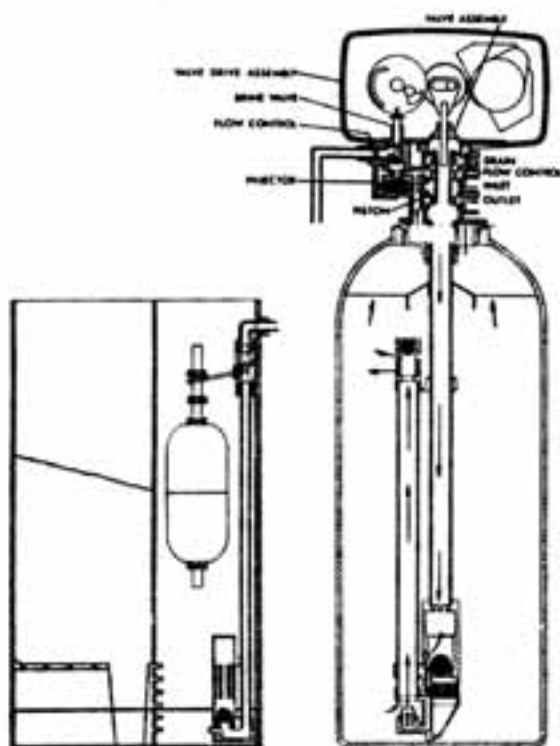
2. BACKWASH POSITION

Water enters unit at control inlet. It then flows through the regenerating valve—down the center tube—diverting water through the velocity control up the side tube drawing resin from bottom of tank to top of distributor.



3. & 4. BRINE AND RINSE POSITION

Water enters unit at control inlet—flows up into injector housing and down through nozzle and orifice to draw brine from the brine tank—brine flows down through mineral and enters the center tube through bottom distributor—flows up through center tube—around the piston and out through the drain line. Water then enters unit at control inlet—flows up into injector housing and down through nozzle and orifice—around the piston—down through mineral—enters center tube through bottom distributor—flows up through center tube—around piston and out through the drain line. Air check ball in brine tank is seated to prevent air intake to resin tank.

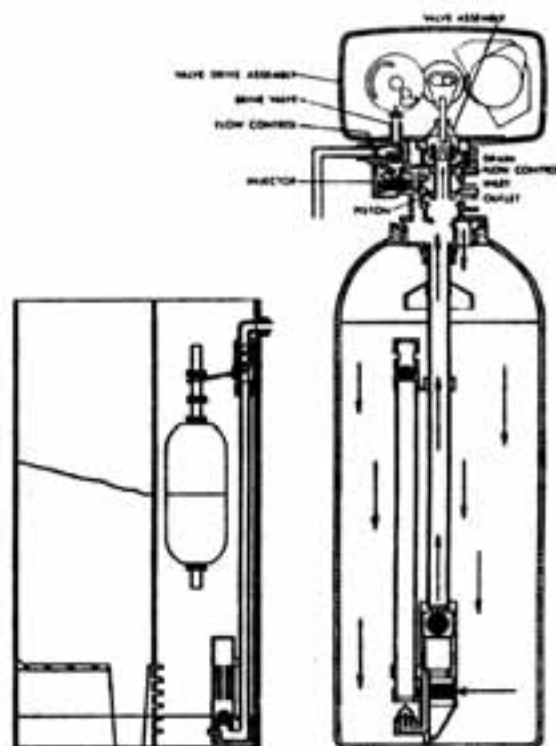
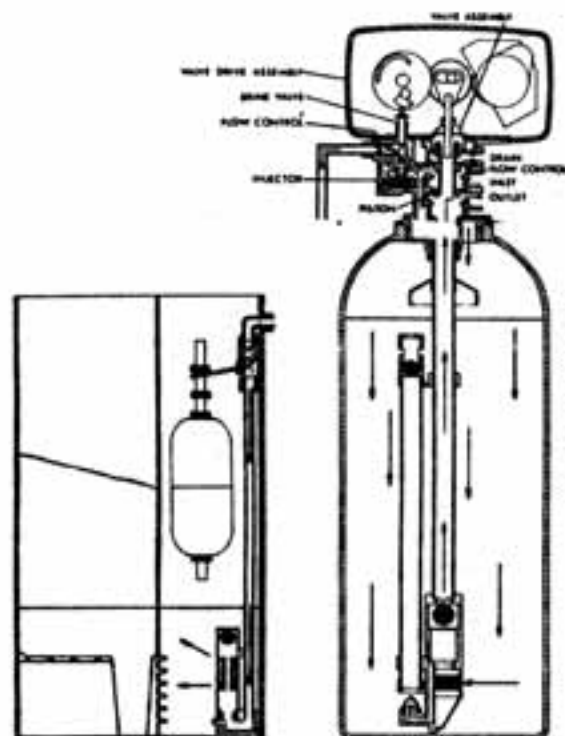


5. BACKWASH POSITION

Water enters unit at control inlet. It then flows through the regenerating valve—down the center tube—diverting water through the velocity control up side tube drawing resin from bottom of tank to top of distributor.

6. RAPID RINSE

Water flows through the regenerating valve directly down through the mineral into the bottom distributor and up through the center tube—around the piston and out the drain line.

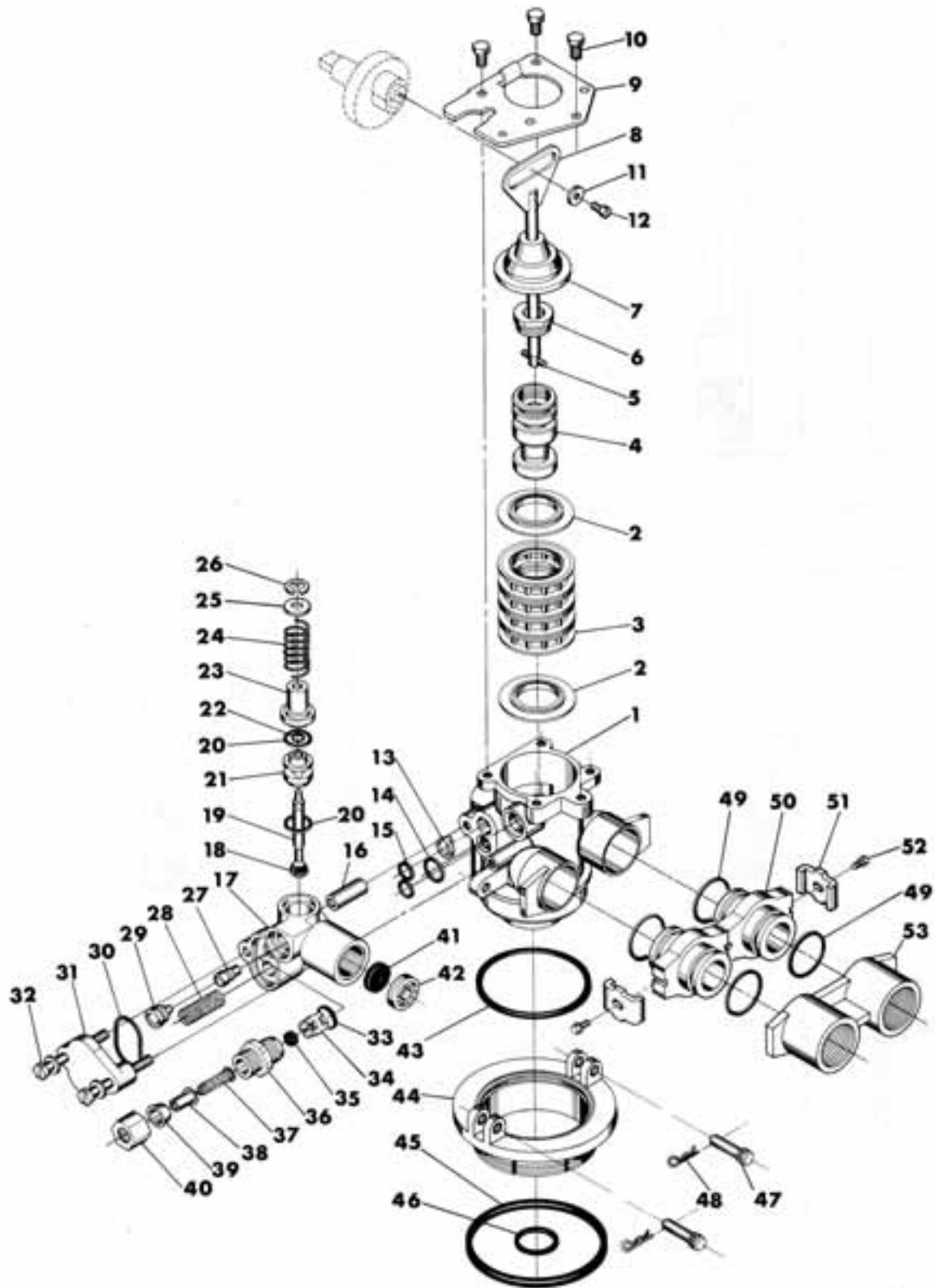


7. BRINE TANK FILL

Water flows through the regeneration valve and down through the mineral. Conditioned water enters the bottom distributor and flows up the center tube around the piston to the outlet. Water flows to the regenerating valve through the injector housing and brine valve to fill the brine tank.

VALVE BODY ASSEMBLY

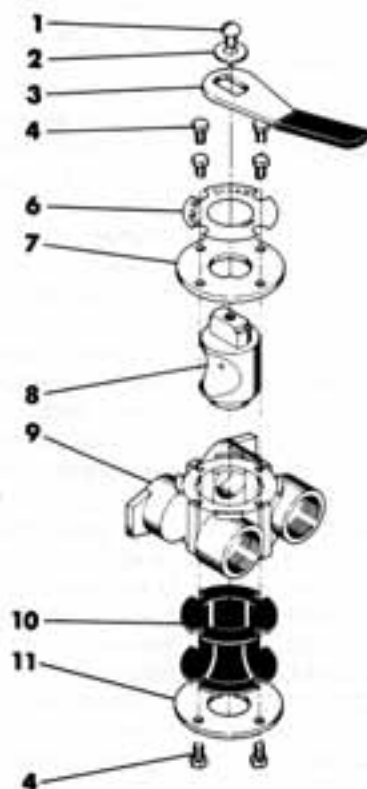
(see parts list)



MODEL WCC VALVE BODY ASSEMBLY PARTS LIST

Item No.	No. Req'd.	Part No.	Description
1	1	WCC14880	Control Valve Body
2	5	WCC13242	Seal
3	4	WCC13241	Spacer
4	1	WCC13247	Piston Standard
	1	WCC13781	Piston Low Water
5	1	WCC10696	Piston Pin
6	1	WCC12953	Piston Retainer
7	1	WCC13446	End Plug Assembly
8	1	WCC13001	Piston Rod Assembly
9	1	WCC13546	End Plug Retainer
10	3	WCC12112	Screw
11	1	WCC13363	Washer
12	1	WCC13296	Screw
13	1	WCC13497	Air Dispenser
14	1	WCC12638	"O" Ring - Drain
15	2	WCC13301	"O" Ring - Injector
16	1	WCC13361	Spacer - Injector
17	1	WCC13163	Injector Body
18	1	WCC12626	Brine Valve Seat
19	1	WCC13172	Brine Valve Stem
20	2	WCC13302	"O" Ring Brine Spacer
21	1	WCC13167	Brine Valve Spacer
22	1	WCC12550	Quad Ring
23	1	WCC13165	Brine Valve Cap
24	1	WCC11973	Spring - Brine Valve
25	1	WCC12035	Washer - Brine Valve
26	1	WCC11981	Retaining Ring
27	1	WCC10914	Injector Throat - Specify Size
28	1	WCC10227	Injector Screen
29	1	WCC10913	Injector Nozzle - Specify Size
30	1	WCC13303	"O" Ring - Injector Cover
31	1	WCC13166	Injector Cover
32	2	WCC13315	Screw - Injector Mounting
33	1	WCC12977	"O" Ring - B.L.F.C.
34	1	WCC13245	B.L.F.C. Button Retainer
35	1	WCC	B.L.F.C. Button - Specify Size
36	1	WCC13244	B.L.F.C. Fitting
37	1	WCC12767	Screen - Brine Line
38	1	WCC10332	B.L.F.C. Tube Insert
39	1	WCC10330	B.L.F.C. Ferrule
40	1	WCC10329	B.L.F.C. Fitting Nut
41	1	WCC	D.L.F.C. Button - Specify Size
42	1	WCC13173	D.L.F.C. Button Retainer
43	1	WCC14883	"O" Ring Seal
44	1	WCC14882	Valve Body Adapter
45	1	WCC12281	"O" Ring Top of Tank
46	1	WCC10244	"O" Ring - Distributor Tube
47	2	WCC14886	Pin - Valve Mounting
48	2	WCC14915	Retaining Clip
49	4	WCC13305	"O" Ring - Adapter Coupling
50	2	WCC13709	Adapter Coupling
51	2	WCC13255	Adapter Clip
52	2	WCC13314	Screw - Adapter Coupling
53	1	WCC13708	Adapter ¾" N.P.T.
	1	WCC13398	Adapter 1" N.P.T.

BY-PASS ASSEMBLY



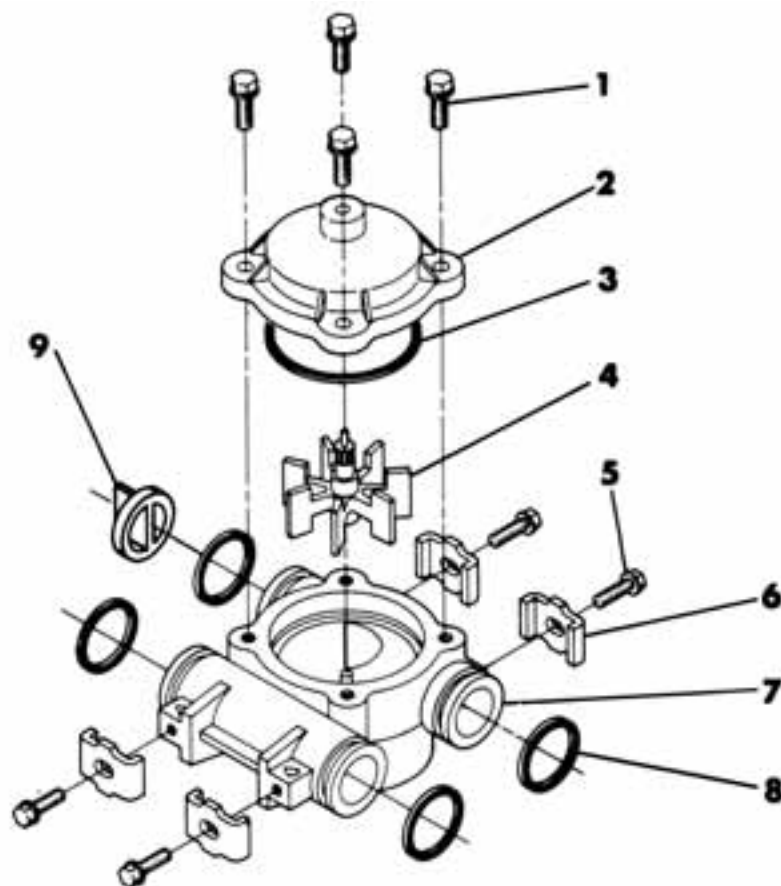
BY-PASS VALVE ASSEMBLY

PARTS LIST

ITEM				
NO.	NO. REQ'D.	PART NO.	DESCRIPTION	
1	1	11989	Round Head Machine Screw	
2	1	11443	Plain Washer	
3	1	11979	Valve Lever	
4	8	15727	Hex. Head Machiner Screw	
5			Not Assigned	
6	1	13604	Valve Label	
7	1	11978	Side Cover	
8	1	11972	Valve Plug	
9	1	13254	Valve Body - 1/4" N.P.T.	
	1	13399	Valve Body - 1" N.P.T.	
10	1	11726	Valve Seal	
11	1	11986	Side Cover	

METERED MODEL

meter assembly



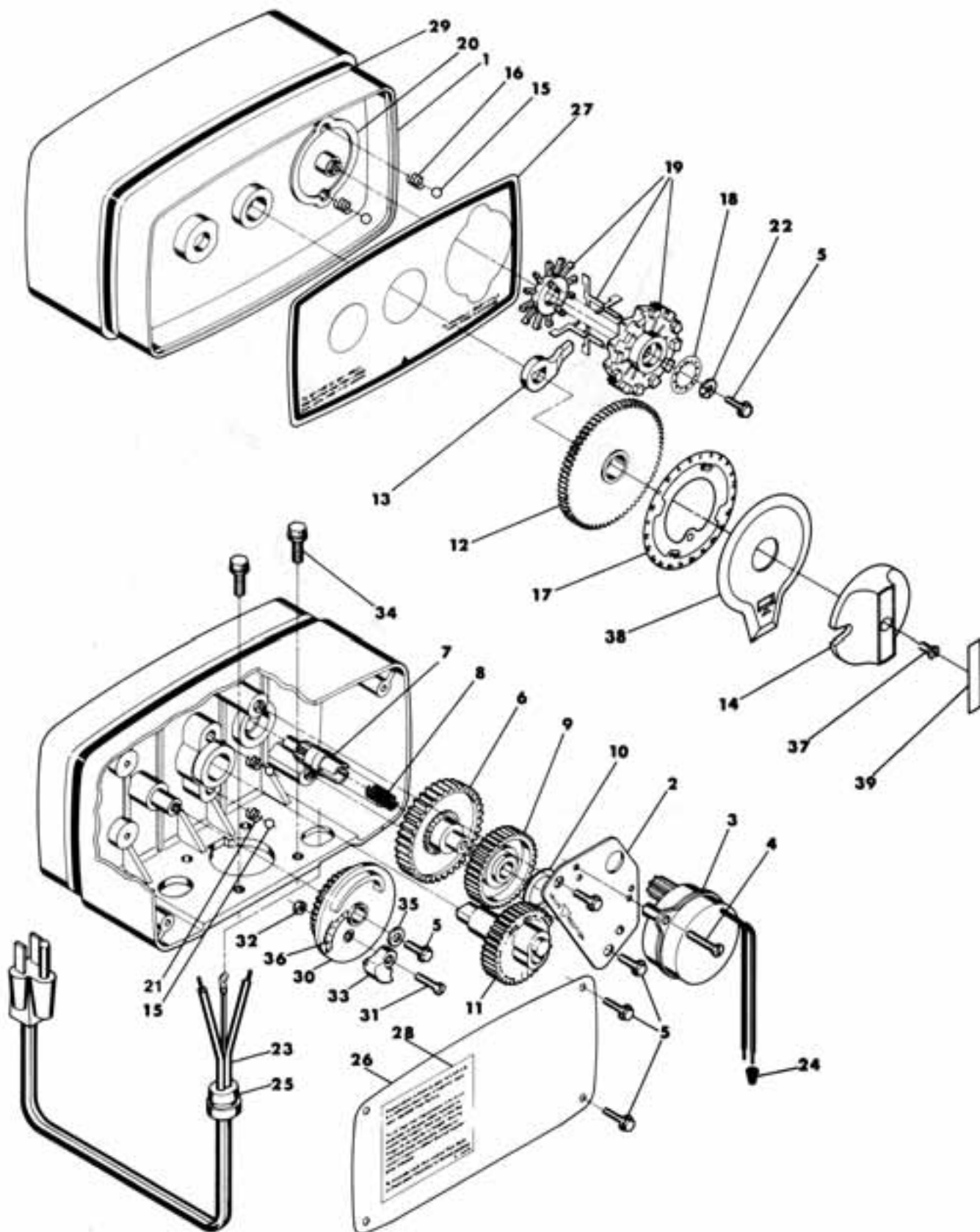
PARTS LIST

ITEM NO.	NO. REQ'D.	PART NO.	DESCRIPTION
1	4	12473	Screw — Meter Cover Assembly
2	1	14038	Meter Cover Assembly - Standard
	1	15150	Meter Cover Assembly - Extended Range (not shown)
3	1	13847	"O" Ring — Meter Cover Assembly
4	1	13509	Impeller
5	4	13314	Screw — Adapter Clip
6	4	13255	Adapter Clip
7	1	13821	Meter Body
8	4	13305	"O" Ring — Meter Body
9	1	14613	Flow Straightener

TIMER MODEL

control valve drive assembly

(see opposite page for parts list)



TIMER MODEL CONTROL VALVE DRIVE ASSEMBLY PARTS LIST

ITEM NO.	NO. REQ'D.	PART NO.	DESCRIPTION
1	1	13162	Drive Housing
2	1	13175	Motor Mounting Plate
3	1	13400	Motor - 110V., 60 Hz.
	1	13494	Motor - 24V., 60 Hz.
4	3	11384	Screw - Motor Mtg. & Ground Wire
5	8	13296	Screw - Component Mounting
6	1	13017	Idler Gear
7	1	13018	Idler Pinion
8	1	13312	Spring - Idler
9	1	13164	Drive Gear
10	1	13299	Curved Washer
11	1	13170	Main Gear & Shaft
12	1	13009	24 Hour Gear
13	1	13011	Cycle Actuator Arm
14	1	14177	Knob - Manual Regeneration
15	4	13300	Ball - 1/4" Dia.
16	2	13311	Spring - Detent - Skipper Wheel
17	1	13959	24 Hour Label - Silver
18	1	13429	Skipper Wheel Label - 12 Day
	1	14732	Skipper Wheel Label - 7 Day
19	1	14381	Skipper Wheel Assembly - 12 Day
	1	14860	Skipper Wheel Assembly - 7 Day
20	1	13864	Skipper Wheel Ring
21	2	14457	Spring - Detent - Main Gear
22	1	13014	Regeneration Pointer
23	1	11842	Electrical Cord - Standard
24	2	12681	Wire Connector
25	1	13547	Strain Relief
26	1	13229	Back Cover
27	1	13309	Front Label - Brown on Beige
	1	13437	Front Label - Blue/Silver on Black
28	1	13310	Rear Label
29	1	13348	Tape Stripe - Brown on Beige
	1	13436	Tape Stripe - Blue on Silver
30	1	13168	Brine Cam
31	1	11980	Screw - Time Fill Cam
32	1	11081	Nut - Time Fill Cam
33	1	13169	Time Fill Cam
34	2	12473	Screw-Drive Mounting
35	1	12037	Washer
36	1	13307	Label - "Lbs of Salt - 3-18"
	1	13489	Label - "Lbs of Salt - 6-36"
37	1	15151	Screw - Knob
38	1	14176	Valve Position Dial - Standard
	1	14278	Valve Position Dial - Low Water
	1	15478	Valve Position Dial - Filter
39	1	14175	Knob Label - Beige
	1	14207	Knob Label - Silver

TIMER MODEL

service instructions

A. TO REPLACE TIME BRINE VALVE, INJECTORS, AND SCREEN

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves of the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Disconnect brine tube and drain line connections at the injector body.
5. Remove the two injector body mounting screws. The injector and brine module can now be removed from the control valve. Remove and discard valve body "O" rings.
- 6A. To replace brine valve:
 1. Pull brine valve from injector body, also remove & discard "O" ring at bottom of brine valve hole.
 2. Apply silicone lubricant to new "O" ring and reinstall at bottom of brine valve hole.
 3. Apply silicone lubricant to "O" ring on new valve assembly and press into brine valve hole, shoulder on bushing should be flush with injector body.
- 6B. To replace injectors and screen:
 1. Remove injector cap and screen, discard "O" ring. Unscrew injector nozzle and throat from injector body.
 2. Screw in new injector throat and nozzle, be sure they are sealed tightly. Install a new screen.
 3. Apply silicone lubricant to new "O" ring and install around oval extension on injector cap.
7. Apply silicone lubricant to three new "O" rings and install on protrusions on injector body.
8. Insert screws thru injector cap and injector. Place this assembly thru hole in timer housing and into mating holes in the valve body. Tighten screws.
9. Reconnect brine tube and drain line.
10. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
11. Check for leaks at all seal areas. Check drain seal with the control in the backwash position.
12. Plug electrical cord into outlet.
13. Set time of day and cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
14. Make sure there is enough brine in the brine tank.

15. Start regeneration cycle manually if water is hard.

B. TO REPLACE TIMER

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves of the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Remove the control valve back cover.
5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. (Slide forward with slight rotational movement).
6. Put new timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
7. Replace timer mounting screws. Replace screw and washer at drive yoke.
8. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
9. Plug electrical cord into outlet.
10. Set time of day, days of regeneration, and salt usage. Cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
11. Replace the control valve back cover.
12. Make sure there is enough brine in the brine tank.
13. Start regeneration cycle manually if water is hard.

C. TO REPLACE PISTON ASSEMBLY

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves of the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Remove the control valve back cover.

5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. (Slide forward with slight rotational movement.)
6. Remove screws and end plug retainer.
7. Pull upward on end of piston yoke until assembly is out of valve.
8. Inspect the inside of the valve to make sure that all spacers and seals are in place, and that there is no foreign matter that would interfere with the valve operation.
9. Take new piston assembly as furnished and push piston into valve by means of the end plug. Twist yoke carefully in a clockwise direction to properly align it with drive gear. Replace end plug retainer and tighten screws securely.
10. Place timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
11. Replace timer mounting screws. Replace screw and washer at drive yoke.
12. Return by-pass or inlet valve to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
13. Plug electrical cord into outlet.
14. Set time of day. Cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
15. Replace the control valve back cover.
16. Make sure there is enough brine in the brine tank.
17. Start regeneration cycle manually if water is hard.

D. TO REPLACE SEALS AND SPACERS

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve. Put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.

3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Remove the control valve back cover.
5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. (Slide forward with slight rotational movement.)
6. Remove screws and end plug retainer.
7. Pull upward on end of piston rod yoke until assembly is out of valve.
8. Remove seals and spacers with your fingers.
9. To restuff a valve, install a seal at bottom of main bore, then alternately install spacers and seals being sure that seals are not protruding into side grooves in main bore.
10. Inspect the inside of the valve to make sure that all spacers and seals are in place, and that there is no foreign matter that would interfere with the valve operation.
11. Take new piston assembly as furnished and push piston into valve by means of the end plug. Twist yoke carefully in a clockwise direction to properly align it with drive gear. Replace end plug retainer and tighten screws securely.
12. Place timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
13. Replace timer mounting screws. Replace screw and washer at drive yoke.
14. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
15. Plug electrical cord into outlet.
16. Set time of day. Cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
17. Replace the control valve back cover.
18. Make sure there is enough brine in the brine tank.
19. Start regeneration cycle manually if water is hard.

TIMER MODEL

service instructions

PROBLEM	CAUSE	CORRECTION
1. Softener Fails To Regenerate.	<p>A. Electrical Service To Unit Has Been Interrupted.</p> <p>B. Timer is Defective.</p> <p>C. Power Failure.</p>	<p>A. Assure Permanent Electrical Service (Check Fuse, Plug, Pull Chain or Switch).</p> <p>B. Replace Timer.</p> <p>C. Reset Time of Day.</p>
2. Softener Delivers Hard Water.	<p>A. By-Pass Valve is Open.</p> <p>B. No Salt in Brine Tank.</p> <p>C. Injectors Or Screen Plugged.</p> <p>D. Insufficient Water Flowing Into Brine Tank.</p> <p>E. Hot Water Tank Hardness.</p> <p>F. Leak At Distributor Tube.</p> <p>G. Internal Valve Leak.</p>	<p>A. Close By-Pass Valve.</p> <p>B. Add Salt to Brine Tank and Maintain Salt Level Above Water Level.</p> <p>C. Replace Injectors and Screen.</p> <p>D. Check Brine Tank Fill Time And Clean Brine Line Flow Control If Plugged.</p> <p>E. Repeated Flushings of the Hot Water Tank is Required.</p> <p>F. Make Sure Distributor Tube Is Not Cracked. Check "O" Ring And Tube Pilot.</p> <p>G. Replace Seals And Spacers And/Or Piston.</p>
3. Unit Uses Too Much Salt.	<p>A. Improper Salt Setting.</p> <p>B. Excessive Water in Brine Tank.</p>	<p>A. Check Salt Usage And Salt Setting.</p> <p>B. See Problem No. 7.</p>
4. Loss of Water Pressure.	<p>A. Iron Buildup In Line To Water Conditioner.</p> <p>B. Iron Buildup In Water Conditioner.</p> <p>C. Inlet of Control Plugged Due To Foreign Material Broken Loose From Pipes By Recent Work Done On Plumbing System.</p>	<p>A. Clean Line To Water Conditioner.</p> <p>B. Clean Control And Add Resin Cleaner To Resin Bed. Increase Frequency of Regeneration.</p> <p>C. Remove Piston And Clean Control.</p>
5. Loss of Resin Through Drain Line.	<p>A. Air In Water System.</p>	<p>A. Assure That Well System Has Proper Air Eliminator Control. Check For Dry Well Condition.</p>
6. Iron In Conditioned Water.	<p>A. Fouled Resin Bed.</p>	<p>A. Check Backwash, Brine Draw And Brine Tank Fill, Increase Frequency of Regeneration. Increase Backwash Time.</p>
7. Excessive Water In Brine Tank.	<p>A. Plugged Drain Line Flow Control.</p>	<p>A. Clean Flow Control.</p>

PROBLEM	CAUSE	CORRECTION
8. Softener Fails To Draw Brine.	B. Plugged Injector System.	B. Clean Injector And Replace Screen.
	C. Timer Not Cycling.	C. Replace Timer.
	D. Foreign Material In Brine Valve.	D. Clean Or Replace Brine Valve.
	E. Foreign Material In Brine Line Flow Control.	E. Clean Brine Line Flow Control.
	A. Drain Line Flow Control Is Plugged.	A. Clean Drain Line Flow Control.
9. Control Cycles Continuously.	B. Injector Is Plugged.	B. Clean Or Replace Injectors.
	C. Injector Screen Plugged.	C. Replace Screen.
	D. Line Pressure Is Too Low.	D. Increase Line Pressure. (Line Pressure Must Be At Least 20 PSI At All Times.)
	E. Internal Control Leak.	E. Change Seals And Spacers and/or Piston Assembly.
	A. Faulty Timer Mechanism	A. Replace Timer.
10. Drain Flows Continuously.	A. Foreign Material In Control.	A. Remove Piston Assembly And Inspect Bore, Remove Foreign Material & Check Control In Various Regeneration Positions.
	B. Internal Control Leak.	B. Replace Seals And/Or Piston Assembly.
	C. Control Valve Jammed In Brine Or Backwash Position.	C. Replace Piston And Seals And Spacers.
	D. Timer Motor Stopped Or Jammed.	D. Replace Timer.

General Service Hints For Meter Control

Problem: Softener Delivers Hard Water.

Cause could be that . . . Reserve Capacity Has Been Exceeded.

Correction: Check salt dosage requirements and reset program wheel to provide additional reserve.

Cause could be that . . . Program Wheel Is Not Rotating With Meter Output.

Correction: Pull cable out of meter cover and rotate manually. Program wheel must move without binding and clutch must give positive "clicks" when program wheel strikes regeneration stop. If it does not, replace timer.

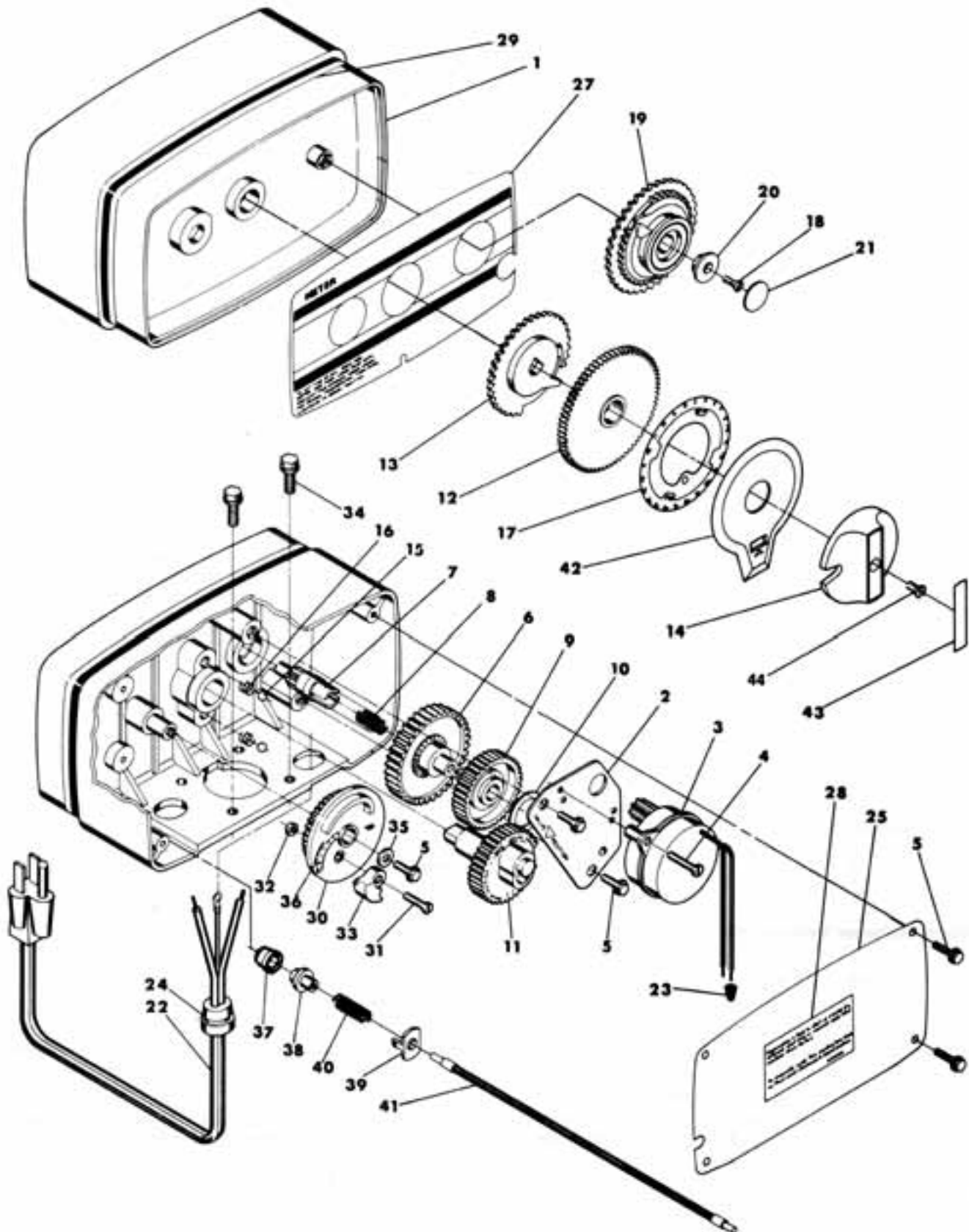
Cause could be that . . . Meter Is Not Measuring Flow.

Correction: Check output by observing rotation of small gear on front of timer (Note — program wheel must not be against regeneration stop for this check). Each tooth to tooth is approximately 30 gallons. If not performing properly, replace meter.

METERED MODEL

control valve drive assembly

(see opposite page for parts list)



METERED MODEL METER INITIATED PARTS LIST

ITEM NO.	NO. REQ'D.	PART NO.	DESCRIPTION
1	1	14448	Drive Housing Assembly
2	1	13175	Motor Mounting Plate
3	1	13400	Motor - 120V., 60 Hz.
	1	13494	Motor - 24V., 60 Hz.
4	3	11384	Screw - Motor Mtg. & Ground Wire
5	7	13296	Screw - Component Mounting
6	1	13017	Idler Gear
7	1	13018	Idler Pinion
8	1	13312	Spring - Idler
9	1	13164	Drive Gear
10	1	13299	Curved Washer
11	1	13170	Main Gear & Shaft
12	1	13009	24 Hour Gear
13	1	13802	Cycle Actuator Gear
14	1	14177	Knob - Manual Regeneration
15	2	13300	Ball - 1/4" Dia.
16	2	14457	Spring - Detent
17	1	13959	24 Hour Label
18	1	13748	Screw - Program Wheel
19	1	14039	Program Wheel Assembly - Specify Hardness Capacity
20	1	13806	Program Wheel Retainer
21	1	13953	Cover Label - Program Wheel
22	1	11842	Electrical Cord
23	2	12681	Wire Connector
24	1	13547	Strain Relief
25	1	13229	Back Cover
26			Not Assigned
27	1	13955	Front Label - Beige
	1	13958	Front Label - Silver
28	1	13899	Rear Label
29	1	13957	Tape Stripe - Beige
	1	13960	Tape Stripe - Silver
30	1	13168	Brine Cam
31	1	11980	Screw - Time Fill Cam
32	1	11081	Nut - Time Fill Cam
33	1	13169	Time Fill Cam
34	2	12473	Screw - Drive Mounting
35	1	12037	Washer
36	1	13307	Label - "Lbs of Salt - 3-18"
	1	13489	Label - "Lbs of Salt - 6-36"
37	1	13830	Drive Pinion - Program Wheel
38	1	13831	Clutch - Drive Pinion
39	1	14253	Spring Retainer
40	1	14276	Spring
41	1	14043	Flexible Cable Assembly
42	1	14176	Valve Position Dial - Standard
	1	14278	Valve Position Dial - Low Water
	1	15478	Valve Position Dial - Filter
43	1	14175	Knob Label - Beige
	1	14207	Knob Label - Silver
44	1	15151	Screw - Knob

METERED MODEL

service instructions

A. TO REPLACE TIME BRINE VALVE, INJECTORS, AND SCREEN

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Disconnect brine tube and drain line connections at the injector body.
5. Remove the two injector body mounting screws. The injector and brine module can now be removed from the control valve. Remove and discard valve body "O" rings.
- 6A. To replace brine valve.
 1. Pull brine valve from injector body, also remove & discard "O" ring at bottom of brine valve hole.
 2. Apply silicone lubricant to new "O" ring and reinstall at bottom of brine valve hole.
 3. Apply silicone lubricant to "O" ring on new valve assembly and press into brine valve hole, shoulder on bushing should be flush with injector body.
- 6B. To replace injectors and screen.
 1. Remove injector cap and screen, discard "O" ring. Unscrew injector nozzle and throat from injector body.
 2. Screw in new injector throat and nozzle, be sure they are seated tightly. Install a new screen.
 3. Apply silicone lubricant to new "O" ring and install around oval extension on injector cap.
7. Apply silicone lubricant to three new "O" rings and stall over three bosses on injector body.
8. Insert screws with washers thru injector cap and injector. Place this assembly thru hole in timer housing and into mating holes in the valve body. Tighten screws. (Be sure to reinstall brass spacers with injector on model 4600 valve.)
9. Reconnect brine tube and drain line.
10. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
11. Check for leaks at all seal areas. Check drain seal with the control in the backwash position.
12. Plug electrical cord into outlet.
13. Set time of day and cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
14. Make sure there is enough brine in the brine tank.

15. Rotate program wheel counter-clockwise until it stops at regeneration position.
16. Start regeneration cycle manually if water is hard.

B. TO REPLACE TIMER

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Pull cable out of meter cover. Remove the control valve back cover.
5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily.
6. Put new timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
7. Replace timer mounting screws. Replace screw and washer at drive yoke.
8. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
9. Plug electrical cord into outlet.
10. Set time of day, program wheel, and salt usage. Cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
11. Replace the control valve back cover. Be sure grommet at cable hole is in place.
12. Make sure there is enough brine in the brine tank.
13. Rotate program wheel counter-clockwise until it stops at regeneration position.
14. Start regeneration cycle manually if water is hard.
15. Plug cable into meter cover, rotate cable to align drive flat if necessary.

C. TO REPLACE PISTON ASSEMBLY

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.

METERED MODEL

service instructions

3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Pull cable out of meter cover. Remove the control valve back cover.
5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. Remove end plug retainer plate.
6. Pull upward on end of piston yoke until assembly is out of valve.
7. Inspect the inside of the valve to make sure that all spacers and seals are in place, and that there is no foreign matter that would interfere with the valve operation.
8. Take new piston assembly as furnished and push piston into valve by means of the end plug. Twist yoke carefully in a clockwise direction to properly align it with drive gear. Replace end plug retainer plate.
9. Place timer on top of valve. Be sure drive pin on main gear engages slot in drive yoke (rotate control knob if necessary).
10. Replace timer mounting screws. Replace screw and washer at drive yoke.
11. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
12. Plug electrical cord into outlet.
13. Set time of day. Cycle the control valve manually to assure proper function. Make sure the control valve is returned to the service position.
14. Replace the control valve back cover. Be sure grommet at cable hole is in place.
15. Make sure there is enough brine in the brine tank.
16. Rotate program wheel counter-clockwise until it stops at regeneration position.
17. Start regeneration cycle manually if water is hard.
18. Plug cable into meter cover. Rotate cable to align drive flat if necessary.

D. TO REPLACE SEALS AND SPACERS

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Pull cable out of meter cover. Remove the control valve back cover.

5. Remove screw and washer at drive yoke. Remove timer mounting screws. The entire timer assembly will now lift off easily. Remove end plug retainer plate.
6. Pull upward on end of piston rod yoke until assembly is out of valve. Remove and replace seals and spacers with fingers.

E. TO REPLACE METER

1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner:
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Pull cable out of meter cover.
5. Remove two screws and clips at by-pass valve or yoke. Pull resin tank away from plumbing connections.
6. Remove two screws and clips at control valve. Pull meter module out of control valve.
7. Apply silicone lubricant to four new "O" rings and assemble to four ports on new meter module.
8. Assemble meter to control valve. Note, meter portion of module must be assembled at valve outlet.
9. Attach two clips and screws at control valve. Be sure clip legs are firmly engaged with lugs.
10. Push resin tank back to the plumbing connections and engage meter ports with by-pass valve or yoke.
11. Attach two clips and screws at by-pass valve or yoke. Be sure clip legs are firmly engaged with lugs.
12. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
13. Check for leaks at all seal areas.
14. Plug electrical cord into outlet.
15. Set time of day. Make sure the control valve is in the service position.
16. Rotate program wheel counter-clockwise until it stops at regeneration position.
17. Start regeneration cycle manually if water is hard.
18. Plug cable into meter cover. Rotate cable to align drive flat if necessary.

F. TO REPLACE METER COVER AND/OR IMPELLER

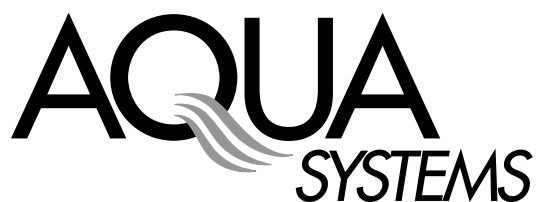
1. Unplug electrical cord from outlet.
2. Turn off water supply to conditioner.
 - a. If the conditioner installation has a "three valve" by-pass system, first open the valve in the by-pass line, then close the valves at the conditioner inlet and outlet.
 - b. If the conditioner has an integral by-pass valve, put it in the by-pass position.
 - c. If there is only a shut-off valve near the conditioner inlet, close it.
3. Relieve water pressure in the conditioner by putting the control in the backwash position momentarily. Return the control to the service position.
4. Pull cable out of meter cover.
5. Remove four screws on cover.
6. Lift cover off of meter module, discard "O" ring.
7. Remove and inspect impeller for gear or spindle damage, replace if necessary.
8. Apply silicone lubricant to new "O" ring and assemble to the smallest diameter on meter cover.
9. Assemble cover to meter module. Be sure impeller spindle enters freely into cover. Press firmly on cover and rotate if necessary to assist in assembly.
10. Replace four screws and tighten.
11. Return by-pass or inlet valving to normal service position. Water pressure should now be applied to the conditioner, and any by-pass line shut off.
12. Check for leaks at all seal areas.
13. Plug electrical cord into outlet.
14. Set time of day. Make sure the control valve is in the service position.
15. Rotate program wheel counter-clockwise until it stops at regeneration position.
16. Start regeneration cycle manually if water is hard.
17. Plug cable into meter cover. Rotate cable to align drive flat if necessary.

METERED MODEL

service instructions

PROBLEM	CAUSE	CORRECTION
1. Softener Fails To Regenerate.	A. Electrical Service To Unit Has Been Interrupted.	A. Assure Permanent Electrical Service [Check Fuse, Plug, Pull Chain or Switch].
	B. Timer is Defective.	B. Replace Timer.
	C. Power Failure.	C. Reset Time of Day.
2. Softener Delivers Hard Water.	A. By-Pass Valve is Open.	A. Close By-Pass Valve
	B. No Salt in Brine Tank.	B. Add Salt to Brine Tank and Maintain Salt Level Above Water Level.
	C. Injectors Or Screen Plugged.	C. Replace Injectors and Screen.
	D. Excessive Water Usage.	D. Increase Frequency of Regeneration and/or Salt Setting [See Timer Instructions]. Make Sure That There Is Not A Leaking Valve in The Toilet Bowl or Sinks.
	E. Insufficient Water Flowing Into Brine Tank.	E. Check Brine Tank Fill Time And Clean Brine Line Flow Control If Plugged.
	F. Hot Water Tank Hardness.	F. Repeated Flushings of the Hot Water Tank is Required.
	G. Leak At Distributor Tube.	G. Make Sure Distributor Tube Is Not Cracked. Check 'O' Ring And Tube Pilot.
	H. Internal Valve Leak.	H. Replace Seals And Spacers And/Or Piston.
3. Unit Uses Too Much Salt.	A. Improper Salt Setting.	A. Check Salt Usage And Salt Setting.
	B. Excessive Water In Brine Tank.	B. See Problem No. 7.
4. Loss of Water Pressure.	A. Iron Buildup In Line To Water Conditioner.	A. Clean Line To Water Conditioner.
	B. Iron Buildup In Water Conditioner.	B. Clean Control And Add Resin Cleaner To Resin Bed. Increase Frequency of Regeneration.

PROBLEM	CAUSE	CORRECTION
5. Loss of Resin Through Drain Line.	C. Inlet of Control Plugged Due To Foreign Material Broken Loose From Pipes By Recent Work Done On Plumbing System.	C. Remove Piston And Clean Control.
6. Iron In Conditioned Water.	A. Air In Water System.	A. Assure That Well System Has Proper Air Eliminator Control. Check For Dry Well Condition.
7. Excessive Water In Brine Tank.	A. Fouled Resin Bed.	A. Check Backwash, Brine Draw And Brine Tank Fill, Increase Frequency of Regeneration.
8. Softener Fails To Draw Brine.	A. Plugged Drain Line Flow Control.	A. Clean Flow Control.
	B. Plugged Injector System	B. Clean Injector And Replace Screen.
	C. Timer Not Cycling.	C. Replace Timer.
	D. Foreign Material In Brine Valve.	D. Clean Or Replace Brine Valve.
	E. Foreign Material In Brine Line Flow Control.	E. Clean Brine Line Flow Control.
9. Control Cycles Continuously.	A. Drain Line Flow Control Is Plugged.	A. Clean Drain Line Flow Control.
	B. Injector Is Plugged.	B. Clean Or Replace Injectors.
	C. Injector Screen Plugged.	C. Replace Screen.
	D. Line Pressure Is Too Low.	D. Increase Line Pressure. (Line Pressure Must Be At Least 20 PSI At All Times.)
	E. Internal Control Leak.	E. Change Seals And Spacers and/or Piston Assembly.
10. Drain Flows Continuously.	A. Faulty Timer Mechanism.	A. Replace Timer.
	A. Foreign Material In Control.	A. Remove Piston Assembly And Inspect Bore, Remove Foreign Material & Check Control in Various Regeneration Positions.
	B. Internal Control Leak.	B. Replace Seals And/Or Piston Assembly.
	C. Control Valve Jammed In Brine Or Backwash Position.	C. Replace Piston And Seals And Spacers.
	D. Timer Motor Stopped Or Jammed.	D. Replace Timer.



LIMITED LIFETIME WARRANTY

WARRANTY POLICY

AQUA SYSTEMS, Avon IN, warrants this water treatment system as stated herein:

From the date of shipment, when we receive any part (or parts) described below, during the specified period below, which we find defective because of faulty materials or workmanship or corrosion we will repair or replace the part (or parts) and return it to you, you pay only freight to and from our factory and local labor and service charges.

- **Five Years On All Parts**
- **Life time on Brine Tank**
- **Life time on Mineral Tank**

GENERAL CONDITIONS

Damage to any part of this water treatment system because of misuse, misapplication, neglect, alteration, accident, installation or operation contrary to our printed instructions, or damage caused by freezing, flood, fire or Acts of God, is not covered by this warranty. In all such cases, regular parts and service charges apply.

We assume no warranty liability in connection with this water treatment system other than specified herein. This warranty is in lieu of all other warranties, expressed or implied, including warranties of fitness for a particular purpose. We do not authorize any person or representative to assume for us any other obligations on the sale of this water treatment system.

This warranty becomes effective on the shipment date of the covered system. Should a malfunction occur, contact AQUA SYSTEMS at the convenient phone number or the address listed on this warranty.

This warranty applies to the original owner at the original location. This warranty is transferable to subsequent owners or locations only with prior written consent by AQUA SYSTEMS. Prior to written consent on transferring this warranty the system may require inspection by a service technician from AQUA SYSTEMS or one certified by AQUA SYSTEMS.

Owners Name _____

Installer _____

Address _____

Model # _____

Serial # _____

Date of Installation _____

Representative _____

AQUA SYSTEMS

7785 East U.S. Highway 36
Avon, Indiana 46123

Manufacturing Plant and Offices

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